

- 11 -

CLAIMS

1. A disposable container (1) for centrifuging and treating a fluid biological material, said container (1) being provided with an open top end and a closed bottom end (16), characterized in that said top
5 end is provided with a lid (2) having:
 - a) a first opening (3) passed through by a first cannula (4) which can be connected operationally to the external environment in order to control the entry and exit of air in conjunction with the transfer of a fluid biological material into or from said container;
 - 10 b) a second opening (7) passed through by a second cannula (8) which can be accessed by a hollow needle (9) in order to transfer a fluid biological material into or from said container (1) through said hollow needle (9);
 - 15 c) a third opening (11) passed through by a third cannula (12) operationally connected to an attachment (22) able to receive and accommodate one end of a syringe (18) in order to transfer a fluid biological material into or from said container (1) through said third cannula (12); and
 - 20 d) the top end (5, 24) of said first cannula (4) is provided with a removable stopper (20, 25) for controlling the entry and exit of air in conjunction with the transfer of a fluid biological material into or from said container.
2. A container (1) according to Claim 1, characterized in that said top
25 end (5) of said first cannula (4) is shaped so as to receive and accommodate one end (19) of a syringe (18) or an adaptor (23) fitted onto said end (19) of said syringe (18) in order to transfer a fluid biological material into or from said container (1) through said first cannula (4).
3. A container (1) according to Claim 2, characterized in that a tap (6)
30 is arranged between said top end (5) and said first cannula (4).

- 12 -

4. A container (1) according to any one of the preceding claims, characterized in that said second cannula (8) can be accessed by said hollow needle (9) through a pierceable membrane (10).
5. A container (1) according to Claim 4, characterized in that said
5 hollow needle (9) is provided with a connector (21) able to receive and accommodate one end (19) of a syringe (18).
6. A container (1) according to Claim 5, characterized in that said end (19) of a syringe (18) is provided with an adaptor (23) also provided with a pierceable membrane (10').
- 10 7. A container (1) according to Claim 5, characterized in that said connector (21) is provided centrally with a rigid straight duct which is covered with a flexible and pierceable sheath.
8. A container (1) according to any one of the preceding claims, characterized in that said attachment (22) is also provided centrally
15 with a rigid straight duct (13) covered with a flexible and pierceable sheath.
9. A container (1) according to any one of the preceding claims, characterized in that the length of said hollow needle (9) is the same as or less than the height (H) of said container (1).
- 20 10. A container (1) according to any one of the preceding claims, characterized in that the length of said third cannula (12) is at least equal to the height (H) of said container (1).
11. A container (1) according to any one of the preceding claims, characterized in that the shape of said container (1) is substantially
25 cylindrical.
12. A container (1) according to any one of the preceding claims, characterized in that the shape of said bottom end (16) of said container (1) is substantially tapered.
13. A container (1) according to the preceding Claim 12, characterized
30 in that the shape of said bottom end (16) of said container (1) is

- 13 -

substantially conical.

14. A container (1) according to Claim 12, characterized in that the shape of said bottom end (16) of said container (1) is substantially frustoconical.
- 5 15. A container (1) according to the preceding Claim 12, characterized in that the shape of said bottom end (16) of said container (1) is substantially hemispherical.
- 10 16. A container (1) according to any one of the preceding Claims 12 to 15, characterized in that said container (1) is provided with a substantially circular base which is formed by an extension (15) of the circular wall of the container which extends around the bottom end (16) of the said container (1).
17. A container (1) according to any one of the preceding claims, characterized in that said lid (2) is removable.
- 15 18. A container (1) according to any one of the preceding claims, characterized in that said lid (2) may be screwed onto the top end of said container (1).
19. A container (1) according to any one of the preceding claims, characterized in that it is graduated.

20